

Attorney Docket 87181RLO
Customer No. 01333

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently Amended) A method for vaporizing solid organic materials onto a substrate surface to form a film, comprising:
 - a) providing a quantity of solid organic material into a vaporization apparatus;
 - b) actively maintaining by cooling the solid organic material in a first ~~heating~~ region in the vaporization apparatus to be below the vaporization temperature;
 - c) heating a second ~~heating~~ region of the vaporization apparatus above the vaporization temperature of the solid organic material so that there is a steep thermal gradient across the thickness of the organic material between the first and second regions; and
 - d) metering, at a controlled rate, solid organic material from the first ~~heating~~ region into the second heating region so that a thin cross section of the solid organic material is heated at a desired rate-dependent vaporization temperature, whereby the thin cross section of solid organic material vaporizes and forms a film on the substrate surface.
2. (Currently Amended) The method according to claim 1 where the ~~solid~~ vaporized organic material is ~~metered~~ passes through a permeable member ~~into the second heating region at a controlled rate that varies linearly with vaporization rate.~~
3. (Previously presented) The method according to claim 1 further including providing a deposition chamber and interrupting the vaporization and thereby minimizing contamination of the deposition chamber walls and conserving the solid organic material when a substrate surface is not being coated.
4. (Cancelled)
5. (Currently Amended) The method according to claim 1 where a constant volume is maintained in the second ~~heating~~ region so as to establish and maintain a constant plume shape.

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6. (Currently Amended) The method according to claim 1 wherein the first ~~heating~~ region is maintained at a constant heater temperature as the solid organic material is consumed.

7. (Currently Amended) The method according to claim 1 wherein the second ~~heating~~ region is maintained at a constant heater temperature as the solid organic material is consumed.

8. (Currently Amended) The method according to claim 1 further including providing a cooling base block surrounding the solid organic material in the first ~~heating~~ region and providing a liquid between the cooling base block and the solid organic material in the first ~~heating~~ region to provide thermal contact and a vapor-tight seal between the solid organic material and the cooling base block.

9. (Currently Amended) The method according to claim 1 wherein the solid organic material is metered on the surface of a rotatable drum into a second ~~heating~~ region at a controlled rate that varies linearly with vaporization rate.

10. (Currently Amended) A method for vaporizing solid organic materials onto a substrate surface to form a film, comprising:

- a) providing a quantity of solid organic material having at least two organic components into a vaporization apparatus;
- b) actively maintaining by cooling the solid organic material in a first ~~heating~~ region in the vaporization apparatus to be below the vaporization temperature of each of the organic components;
- c) heating a second ~~heating~~ region of the vaporization apparatus above the vaporization temperature of the solid material so that there is a steep thermal gradient across the thickness of the organic material between the first and second regions of each of the components of the solid organic material; and

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d) metering, at a controlled rate, solid organic material from the first heating region into the second heating region so that a thin cross section of the solid organic material is heated at a desired rate-dependent vaporization temperature of each of the components, whereby each of the solid organic material components simultaneously vaporizes and forms a film on the substrate surface.

11. (Currently Amended) The method according to claim 10 where the solid vaporized organic material is metered passes through a permeable member ~~into the second heating region at a controlled rate that varies linearly with vaporization rate.~~

12. (Previously presented) The method according to claim 10 further including providing a deposition chamber and interrupting the vaporization rate and thereby minimizing contamination of the deposition chamber walls and conserving the solid organic materials when a substrate surface is not being coated.

13. (Cancelled)

14. (Currently Amended) The method according to claim 10 where a constant volume is maintained in the second heating region so as to establish and maintain a constant plume shape.

15. (Currently Amended) The method according to claim 10 wherein the first heating region is maintained at a constant heater temperature as the solid organic material is consumed.

16. (Currently Amended) The method according to claim 10 further including providing a cooling base block surrounding the solid organic material in the first heating region and providing a liquid between the cooling base block and the solid organic material in the first heating region to provide thermal contact and a vapor-tight seal between the solid organic material and the cooling base block.

17. Cancelled

18. Cancelled

19. Cancelled

20. Cancelled

21. Cancelled.

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- 22. Cancelled
- 23. Cancelled
- 24. Cancelled
- 25. Cancelled